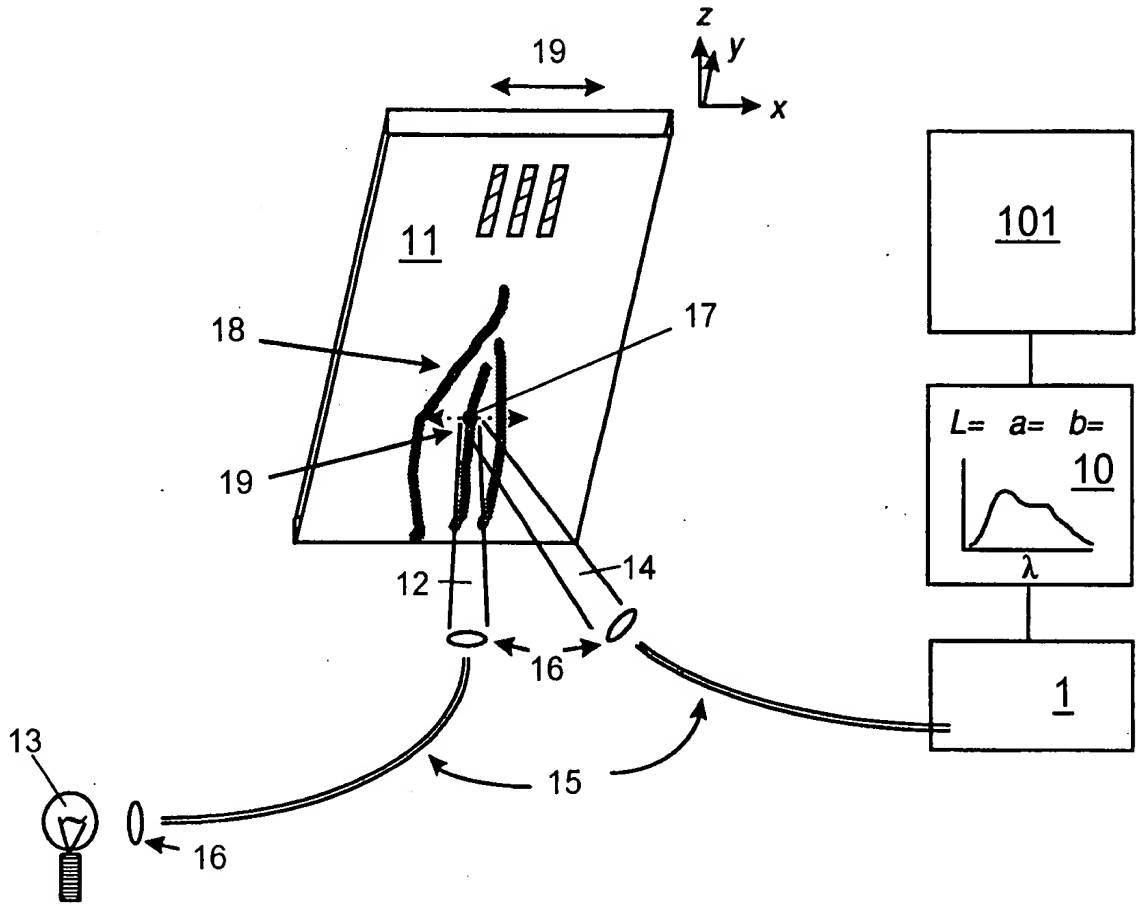

FIG. 1

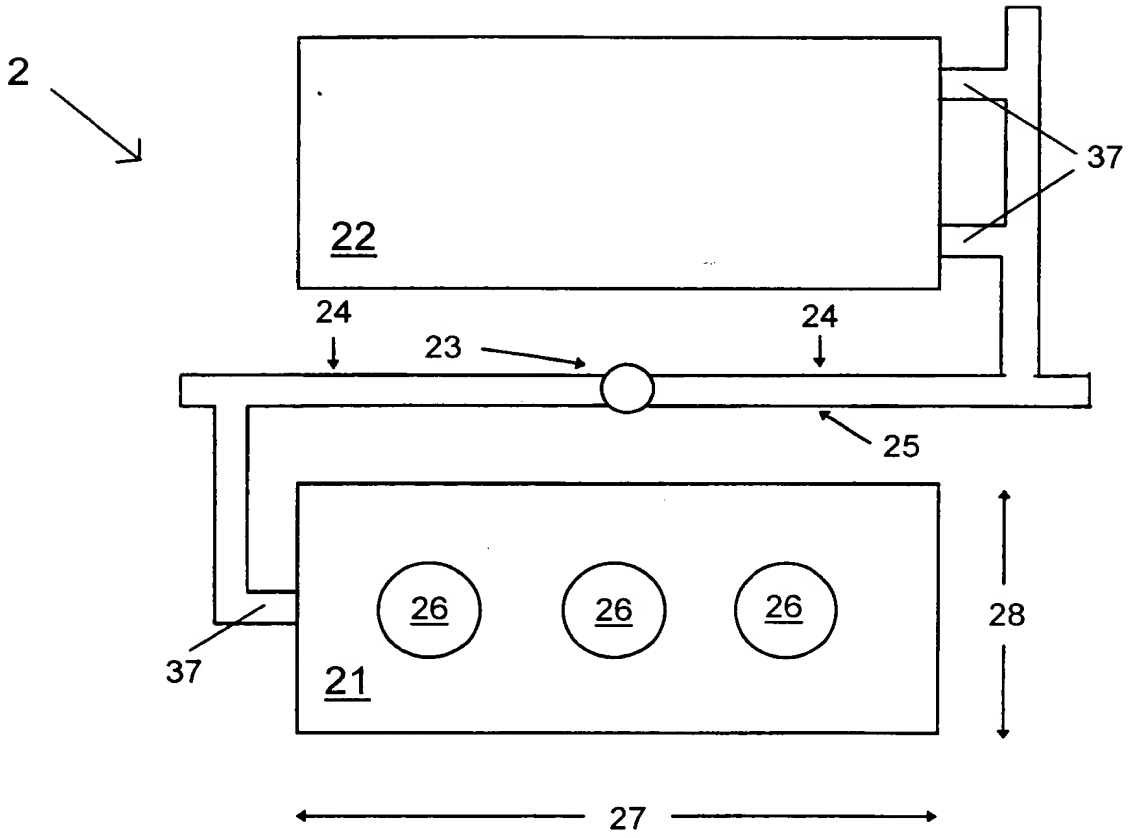

FIG. 2

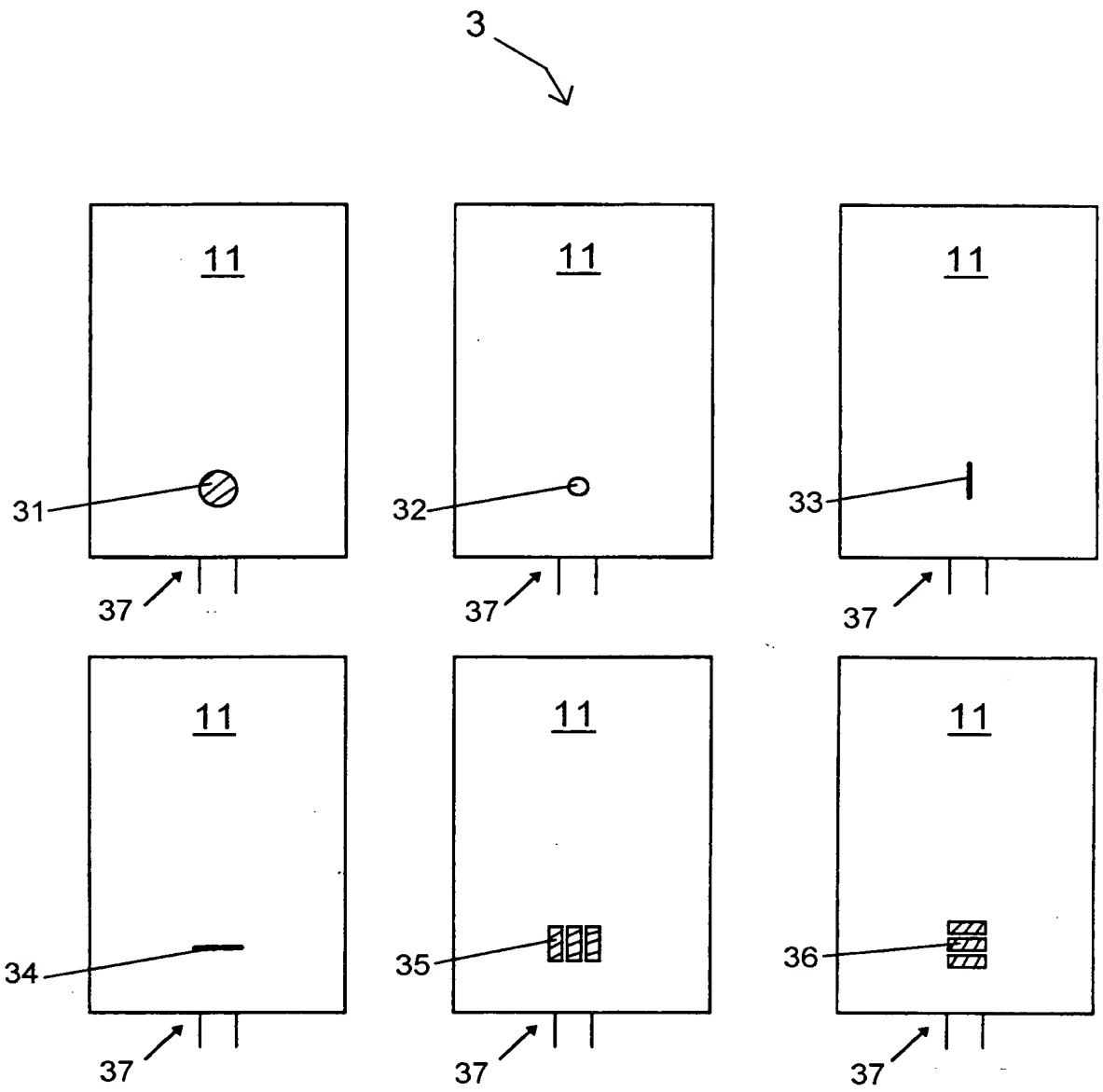

FIG. 3

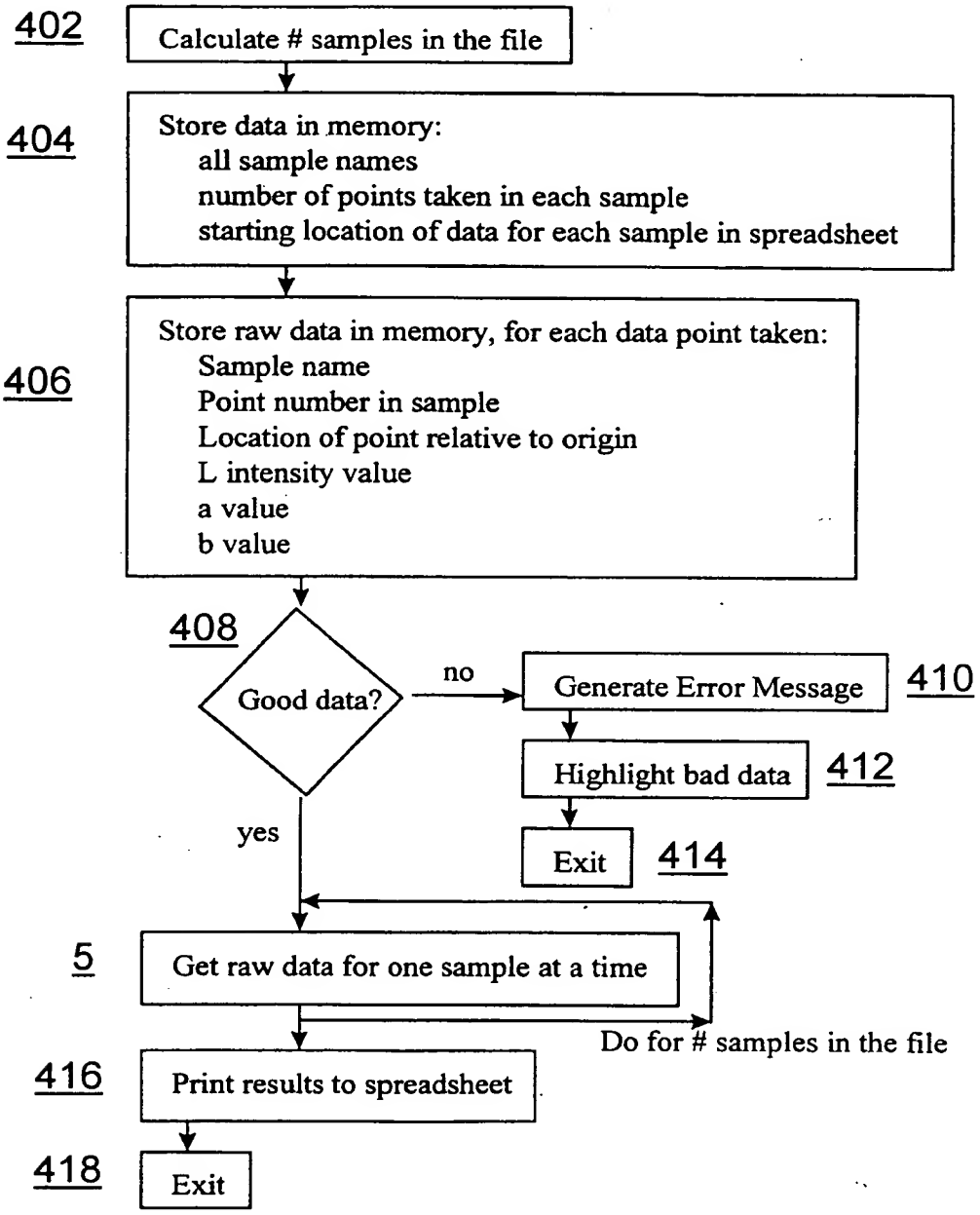
402
Calculate # samples in the file
404
Store data in memory:
all sample names
number of points taken in each sample
starting location of data for each sample in spreadsheet
406
Store raw data in memory, for each data point taken:
Sample name
Point number in sample
Location of point relative to origin
L intensity value
a value
b value
408
Good data?
no
Generate Error Message
410
Highlight bad data
412
Exit
414
yes
5
Get raw data for one sample at a time
Do for # samples in the file
416
Print results to spreadsheet
418
Exit

FIG. 4

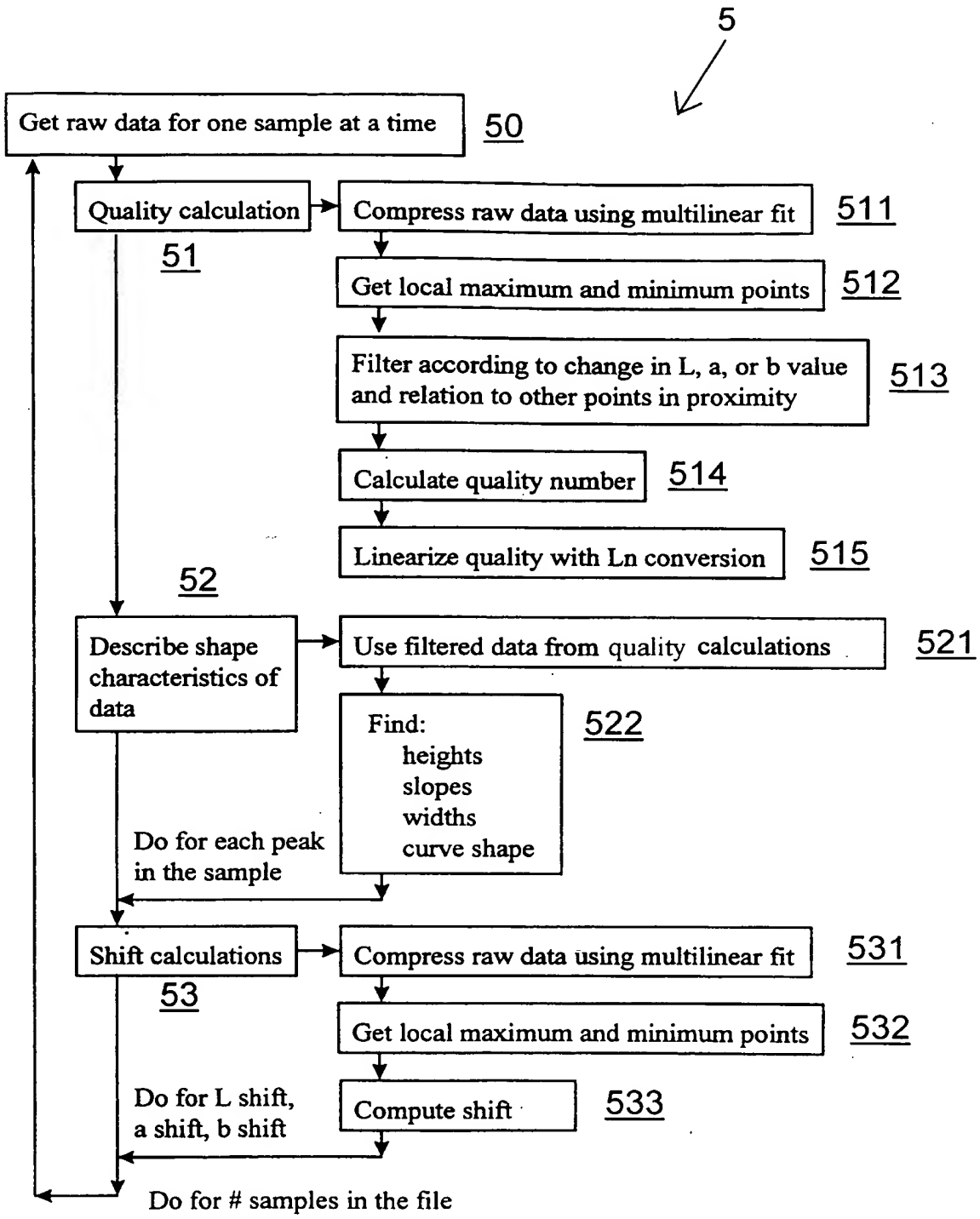
5
Get raw data for one sample at a time
50
Quality calculation
51
Compress raw data using multilinear fit
511
Get local maximum and minimum points
512
Filter according to change in L, a, or b value and relation to other points in proximity
513
Calculate quality number
514
Linearize quality with Ln conversion
515
52
Describe shape characteristics of data
Use filtered data from quality calculations
521
Find:
heights
slopes
widths
curve shape
522
Do for each peak in the sample
Shift calculations
53
Compress raw data using multilinear fit
531
Get local maximum and minimum points
532
Do for L shift, a shift, b shift
Compute shift
533
Do for # samples in the file

FIG. 5

Description of signal peaks

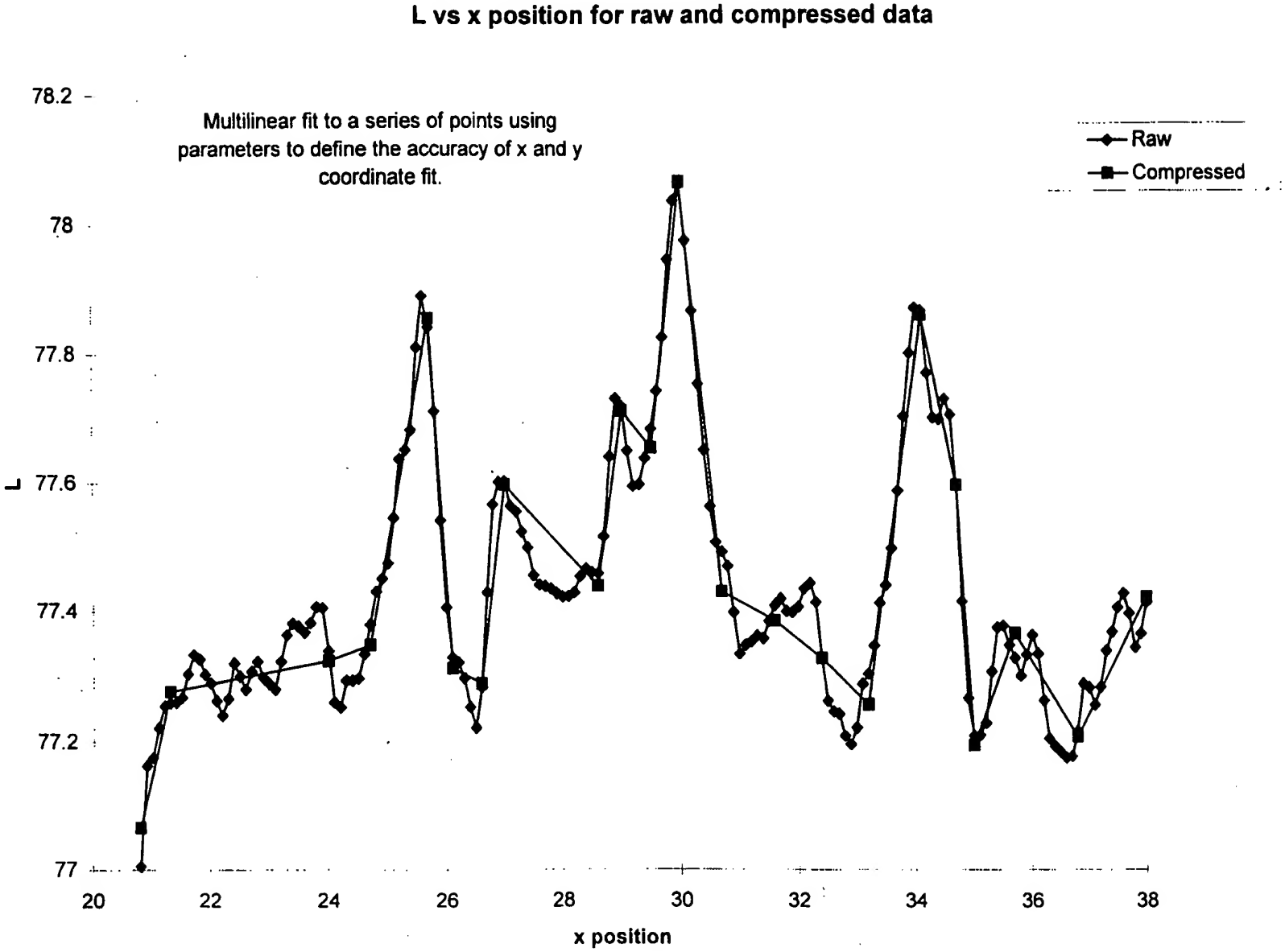

FIG. 6

Description of signal peaks

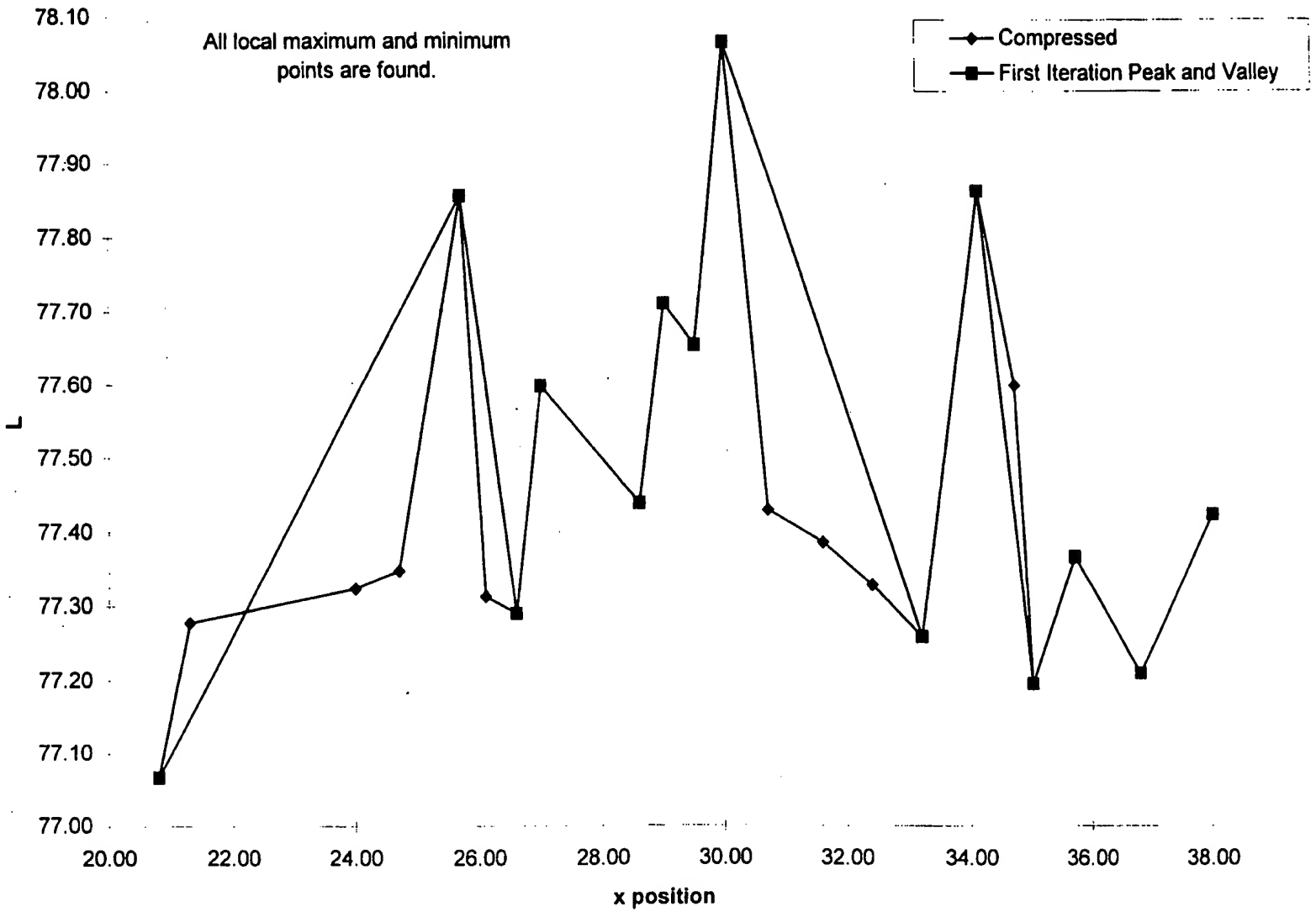

FIG. 7

Description of signal peaks

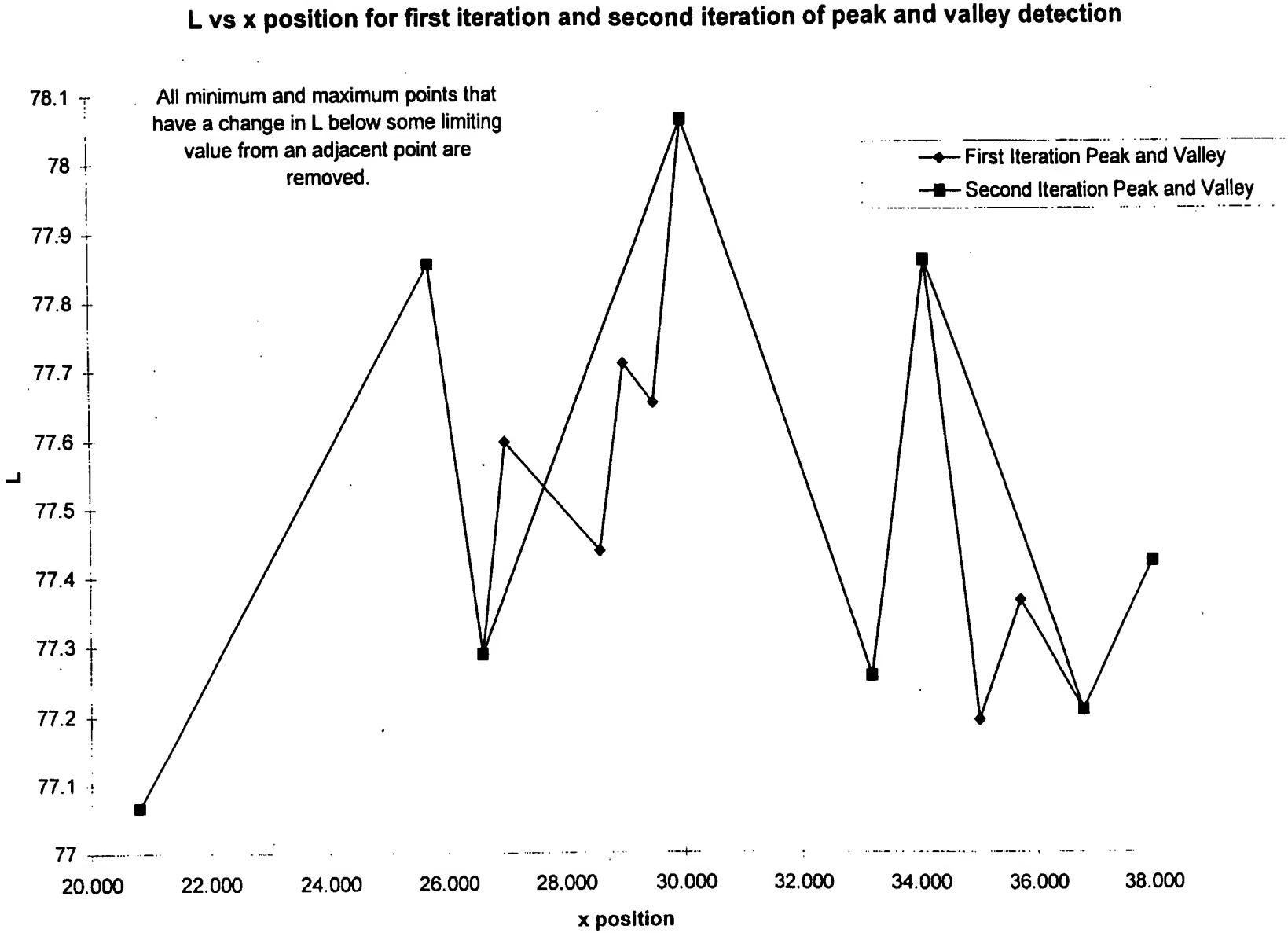

FIG. 8

Access Denied

Description of signal peaks

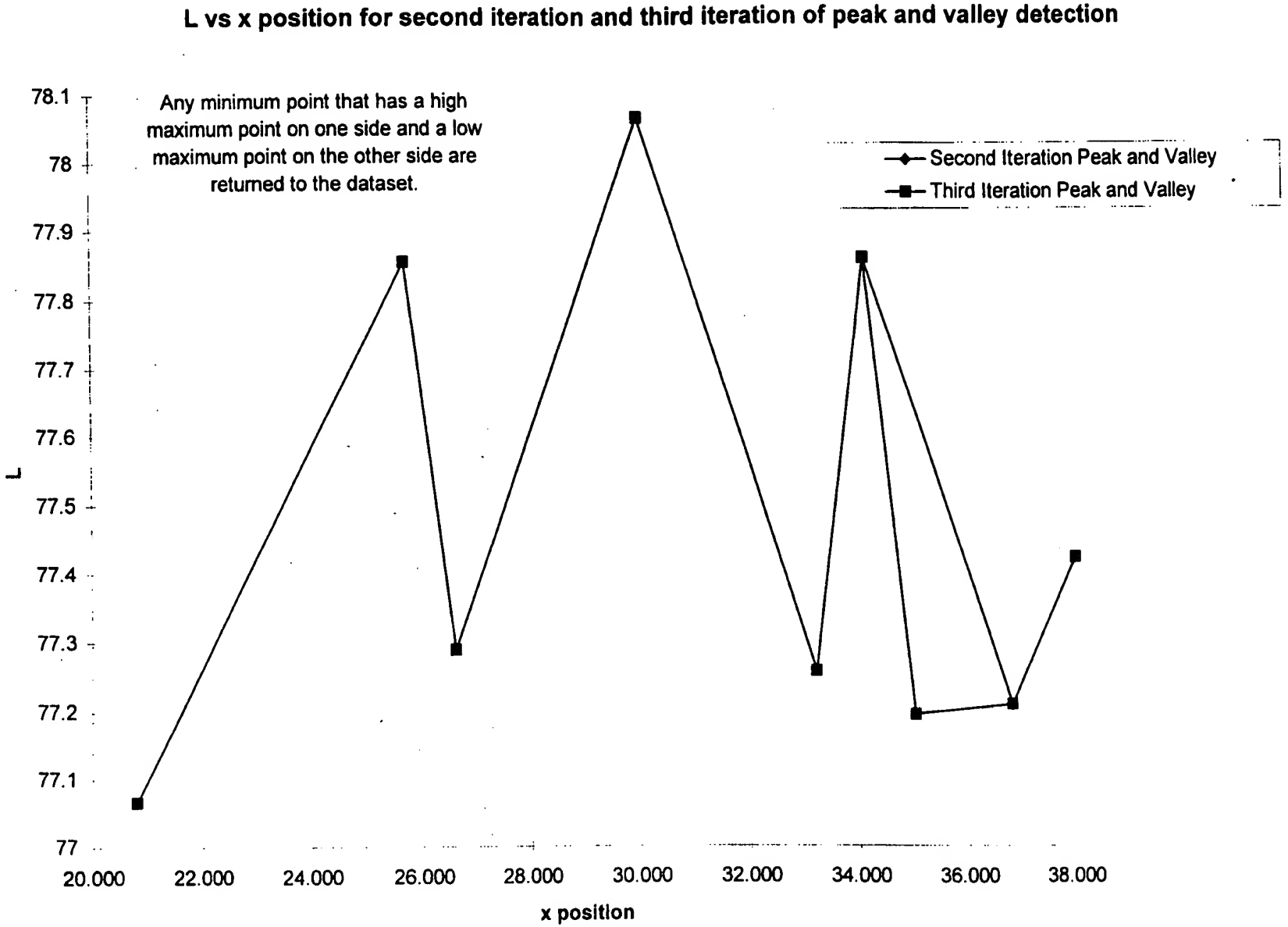

FIG. 9

Quality Calculation

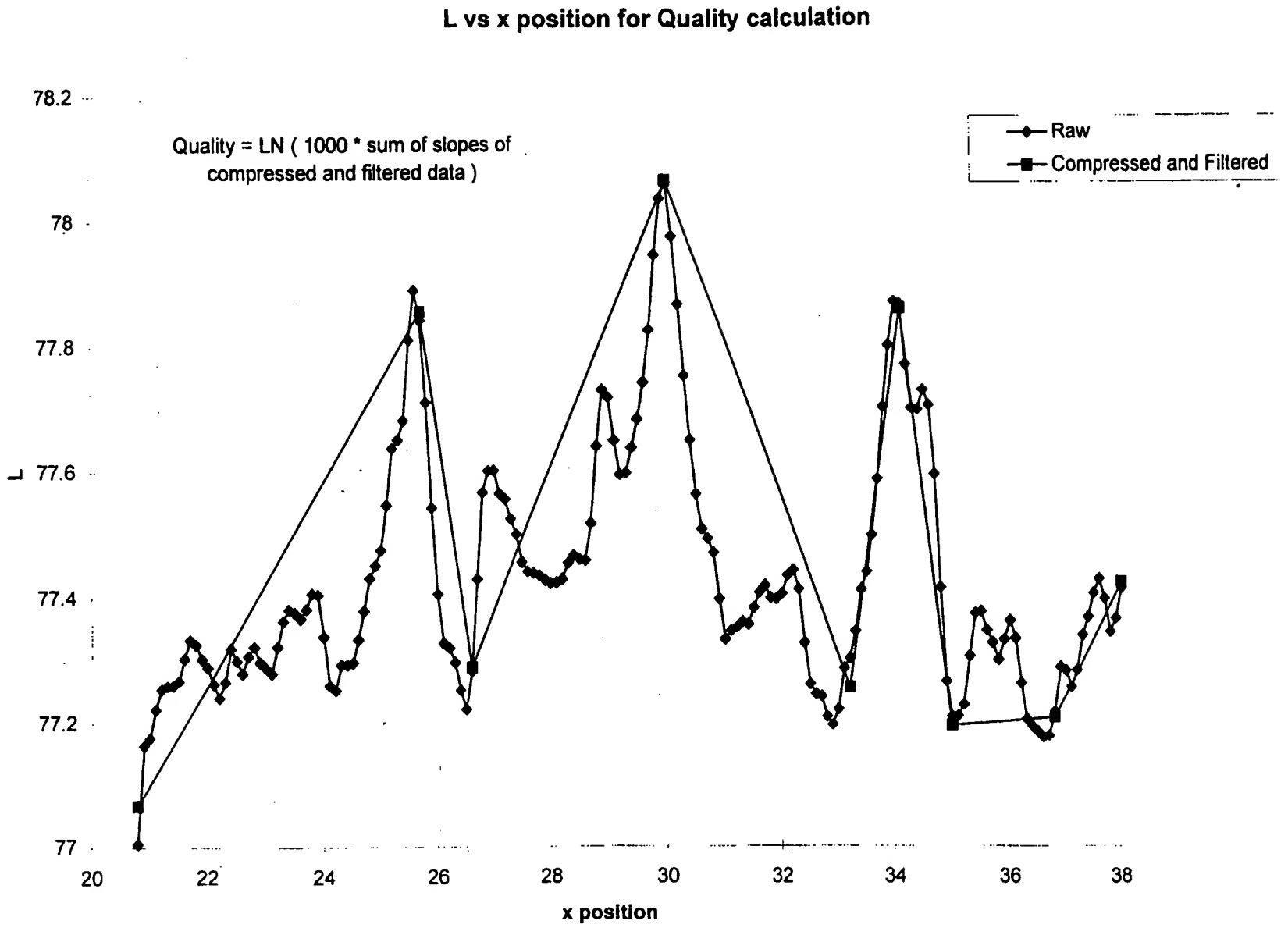

FIG. 10

Description of signal peaks

Key				
	Λ	Width (Top)	Height (Left; Right)	Slope (Left; Right)
	V	Width (Top)	Height (Left; Right)	Slope (Left; Right)
	U	Width (Top; Bottom)	Height (Left; Right)	Slope (Left; Right)
	W	Width (Top; Left; Right; Bottom)	Height (Left; Mid Left; Mid Right; Right)	Slope (Left; Mid Left; Mid Right; Right)

Sample	Shape	Width	Height	Slope
spot01_1	Λ	5.8	0.79; 0.57; Avg (0.68)	0.16; -0.63
[illegible]	Λ	6.6	0.78; 0.81; Avg (0.795)	0.23; -0.25
	Λ	1.8	0.6; 0.66; Avg (0.63)	0.67; -0.73

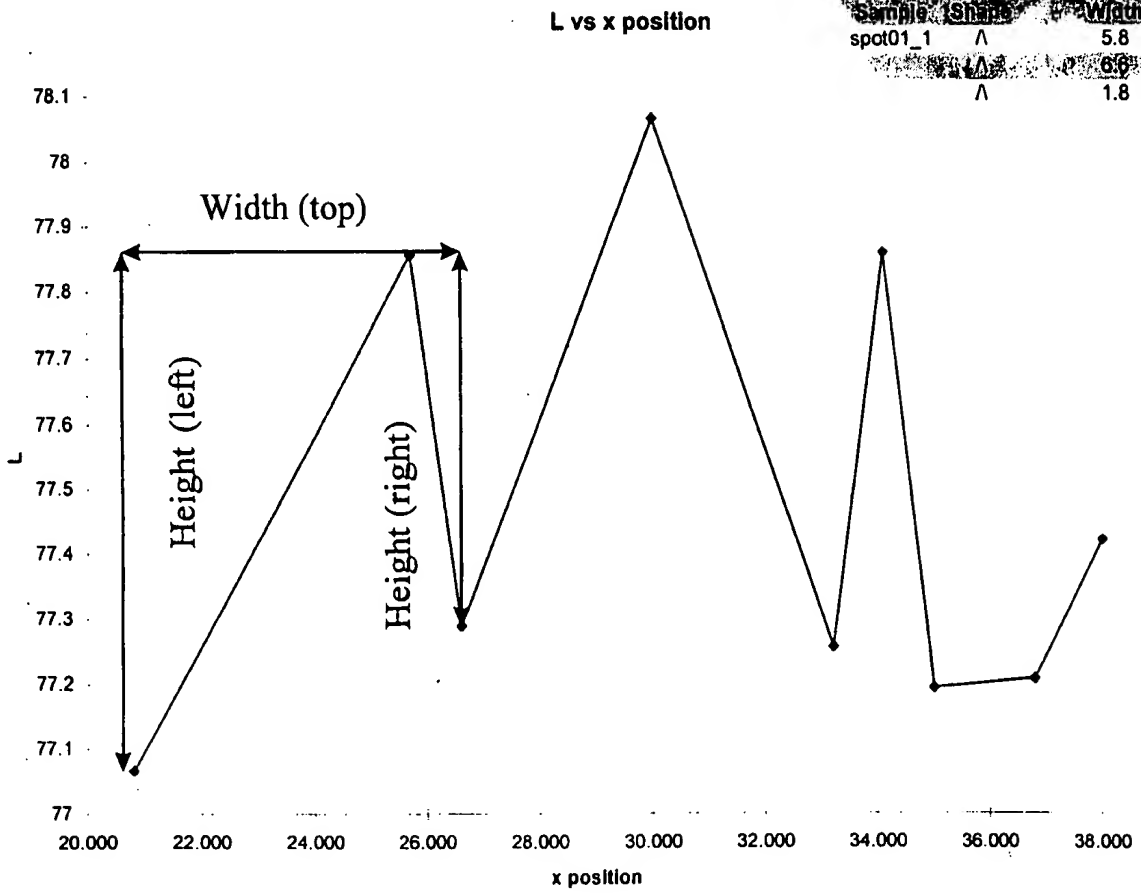

FIG. 11

L Shift Calculation (similar for a shift and b shift calculations)

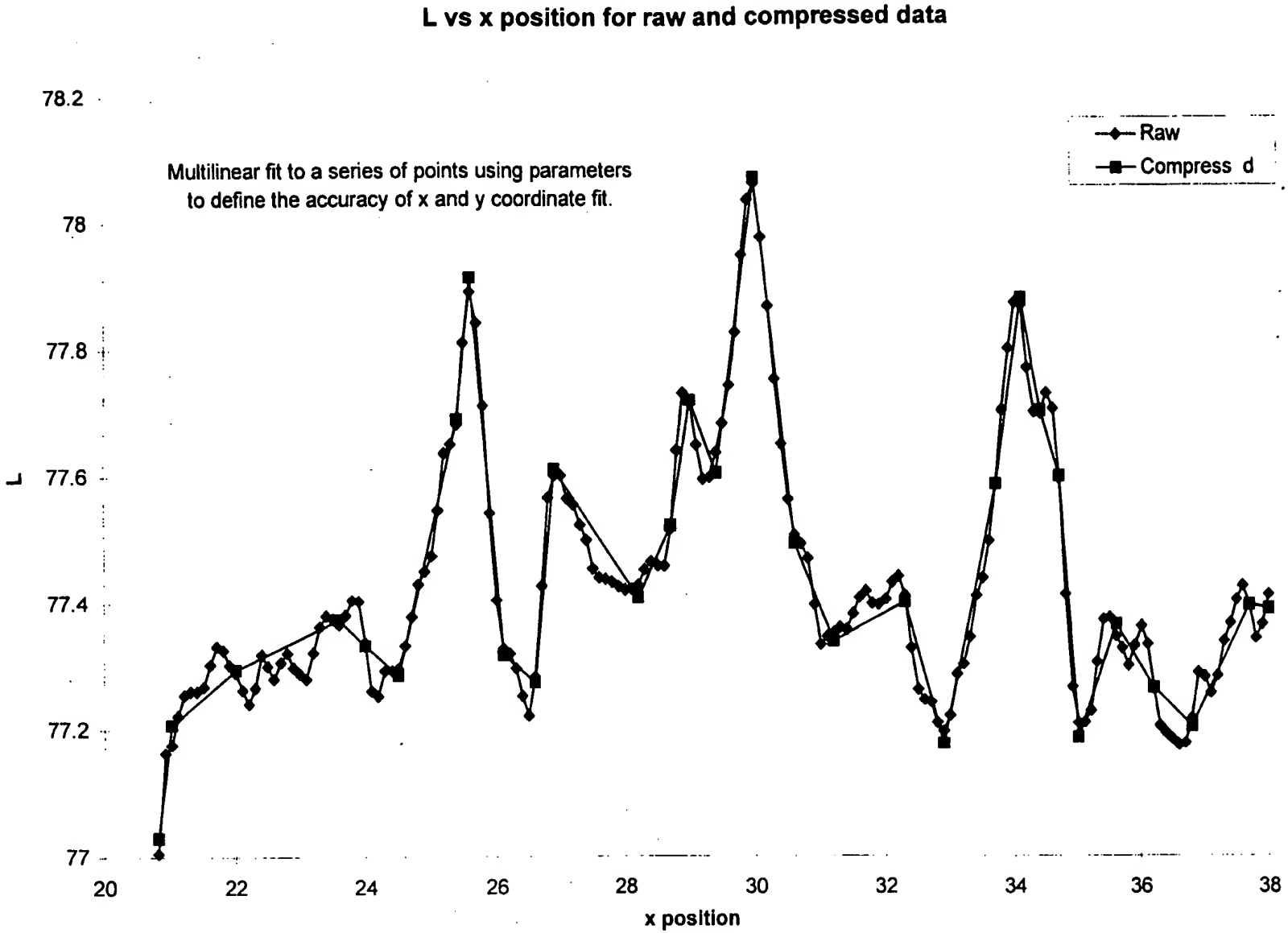

FIG. 12

L Shift Calculation (similar for a shift and b shift calculations)

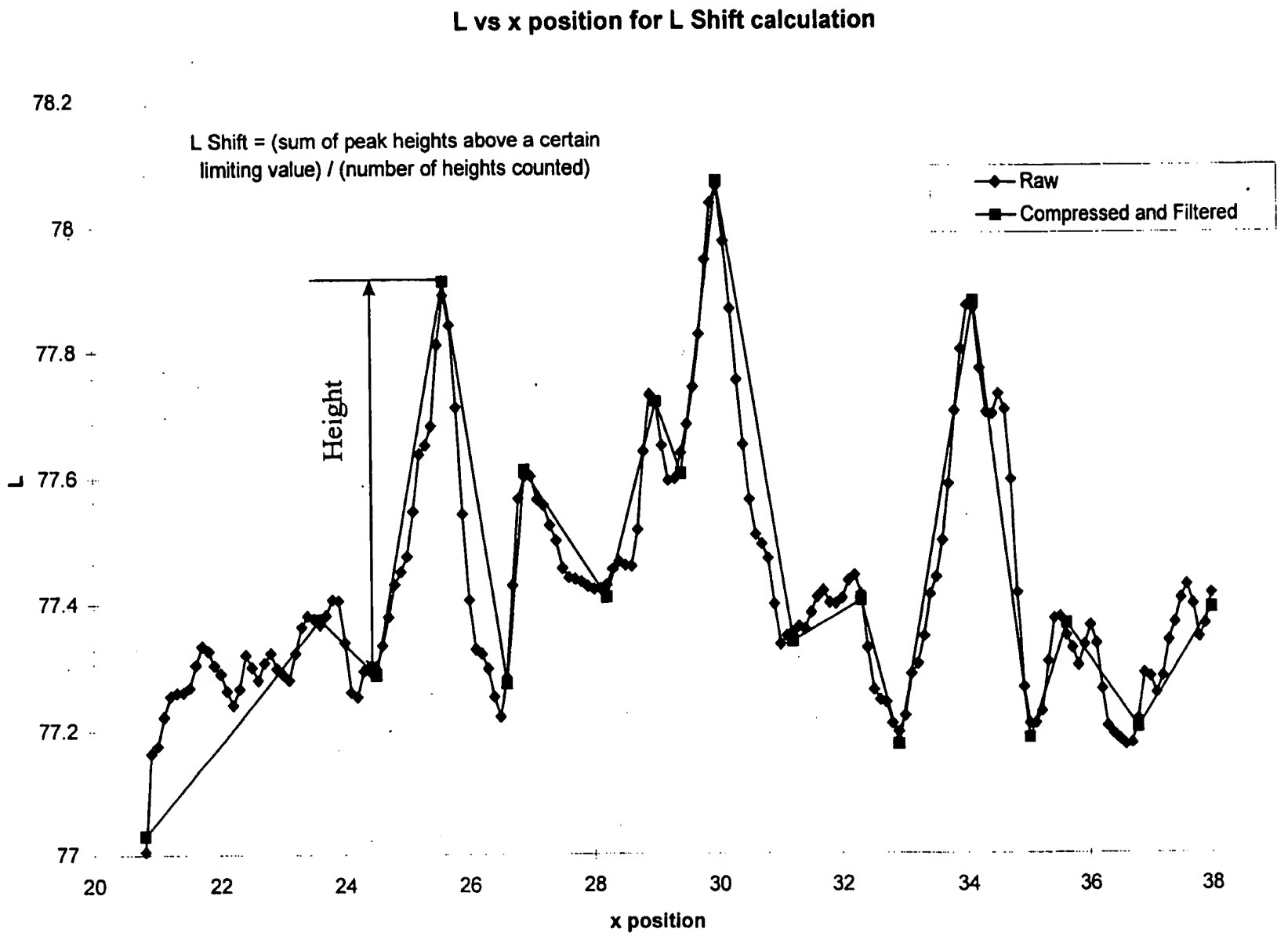

FIG. 13